Transformation of Eutectoid Copper-Borillium Alloys. "Reentgenography

Edited by G. Kurdyumov. ONTI NKTP, 1936 p. 269

Applied to the Study of Materials."

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

ROUSAROVA, Jarmila, D.s.; ZNAMENACEK, Karel; TREJNA, Emilie, (HMU)

Certain problems of environmental atmosphere for newborn infants.

Cesk.pediat. 15 no.1:30-36 Ja '60.

1. Ustav pro peci o matku a dite v Praze-Podoli, reditel prof.dr.

J. Trapl, vedouci pediatrickeho useku prim. dr. K. Polacek. Hydrometeorologicky ustav v Praze.

(INFANT NEWBORN)

(AIR)

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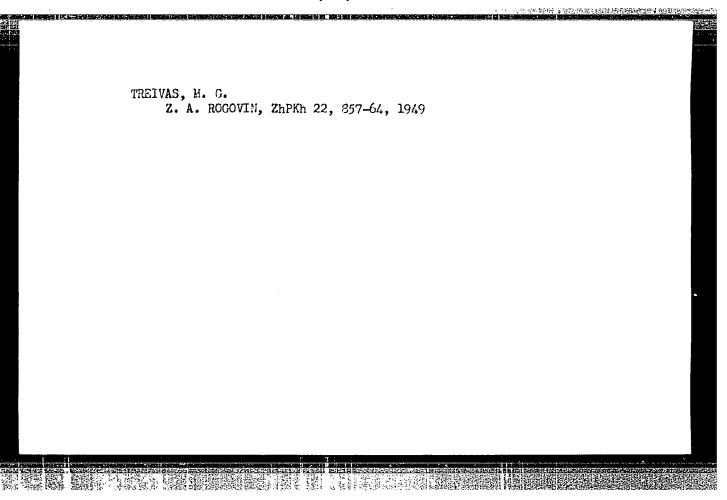
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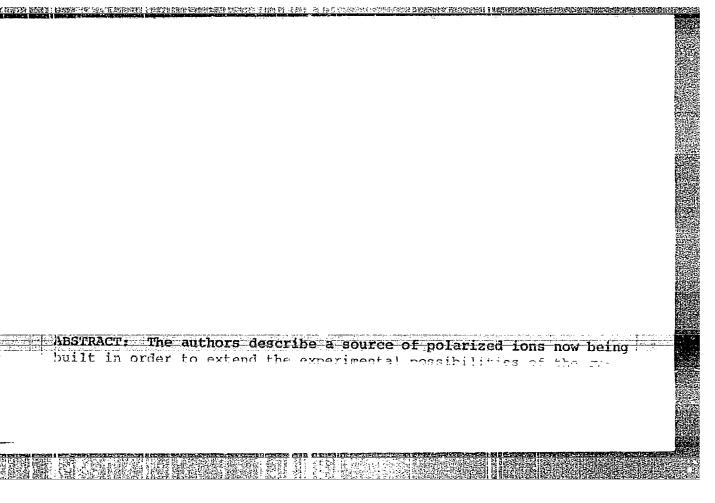
Preparation of specimens of monocarborycellulose and its esters. M. Trelvas, N. N. Shorygina, and Z. Rogovin (Moncow Textile IMET: Zhur. Priklad. Khim. (J. Applied Chem.) 22, 1214-24(1940).—The presence of even a small no. of CoJil groups sharply lowers the soly, of nitrates derived from carbonycellulose; this soly, is less than that of nitrates of alguic or peetic acids. The presence of CoJi in the opposition of the polysaccharide mol. significantly lowers the rate of acetylation. Cellulose (linters) was oxidized to a monocarbony deriv. by means of NOs, with either the static or the dynamic methods (cf. Yackel and Kenyon, C.A. 36, 1173°); the latter was carried out in a desiccator contg. a beaker of liquid NOs and the residual air was pumped out. The COJII content of alginic acid was not increased with NOs treatment, hence secondary OII groups are mattacked. Primary OII and CHO groups are readily oxidized (dialdehydecellulose is oxidized to a product contg. 32 6°, COJII). The extent of chain destruction cannot be estit, since introduction of COJI groups lowers the stability to alkali if the 6-C is attacked and the viscometric method is unsultable. The fragmentative action is shown by a 10 to 12-fold decline in the viscosity of alginic acid treated with NOs (COJI content is const.). The monocarboxy-cellulose (I) is 100% sol. in 20% NaOII and is 50-60% more hygroscopic than the initial linter; the name is a provisional one for the acid resulting from 6-C oxidation and having the structure of polyglycurosic acid. Nitration of I gave nitrates whose soly. In Me₁CO is 0.7-18.7% with 13% N content and 1.5-8.0% CO₂H; nitrates of alginic or pectic acids are 90-100°, sol. The loss in soly, may be attributed

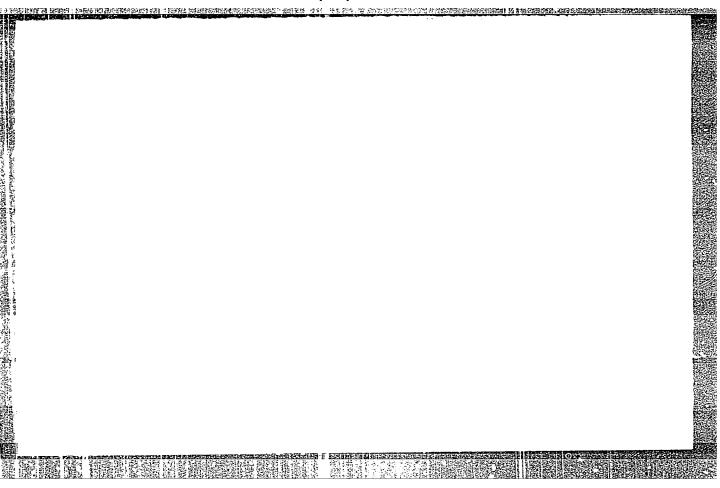
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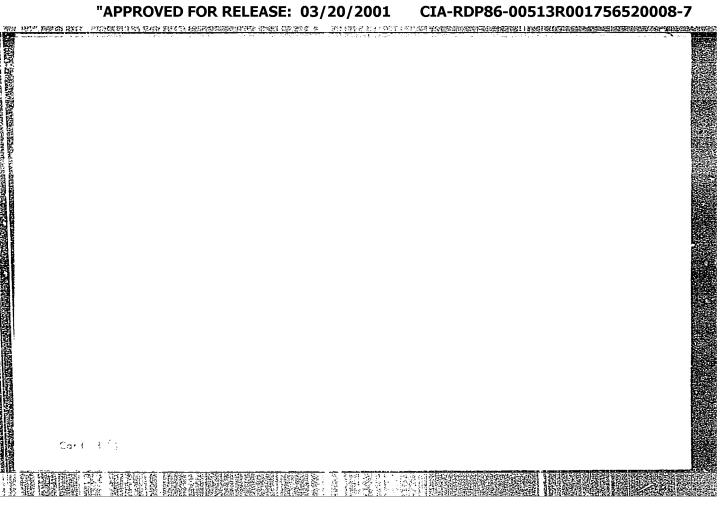
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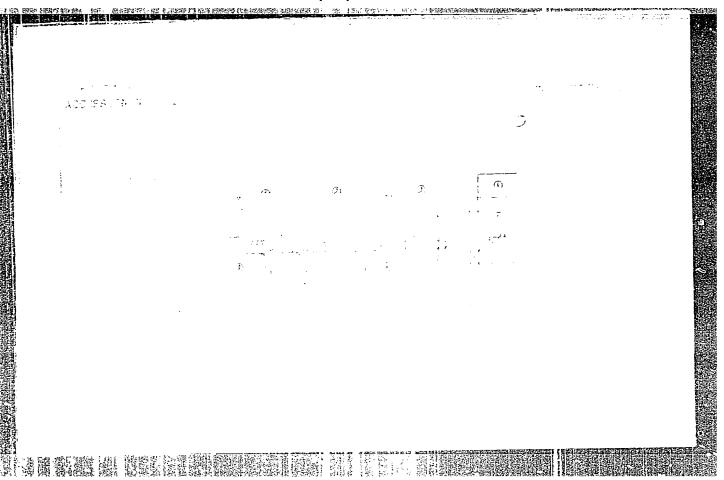
to cross-chain esterification of CO₃H and HO₃ a process readily visualized in nitrations in nonapprosis useful (such as 18%; HNO₃, 30%; H₂D₃, and 2% P₄D₄ for 4 hrs. at 20%; when nitration is carried out in solus, contg. 10% H₃O₃, the soly, of the product rises to 81%. The soly, differences in alginic acid and pectic deriva, are attributed to the different steric arrangements of the acid and sic, groups. I was acetylated in homo- and heterogeneous systems; the process is severely retarded by CO₃H groups and a specimen contg. 1.0% CO₃H does not completely react in 24 hrs. under condition which completely acetylate cotton linters. Incompletely acetylated products have low Me₃CO soly, (3.7%), whereas complete esters show solubilities ranging from 60.0% to 75% for specimens having 1.0.3.6% CO₃H. It is believed that Ac₂O forms mixed anhydrides with the CO₃H groups which then reacts with the OH groups of interchain type, a factor which prevents further swelling and thus reducing the reaction rate. Solution of I in dil. NaOH and treatment with Ag₂NO₃ gave the inset. Ag alt which, treated with MeI in EtOH, yields the Me siter which is sol. in H₂O (used for sepn. from Ag1) and invol. in EtOH. G. M. K.



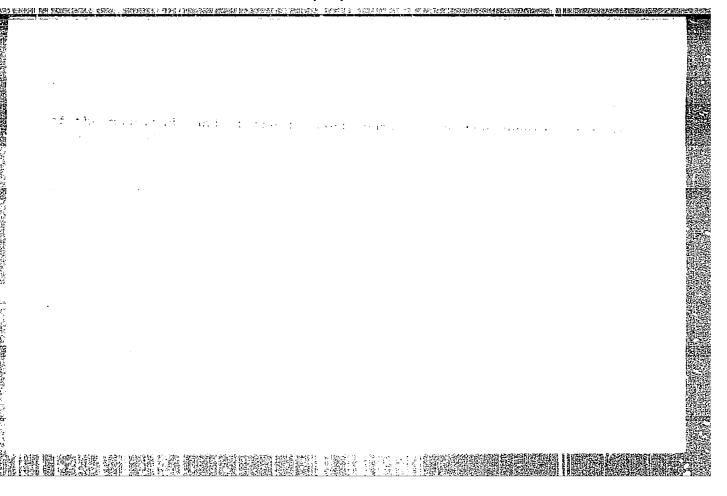


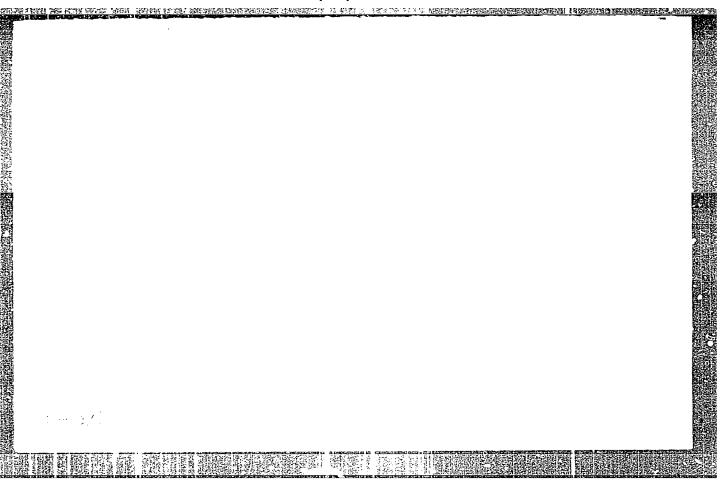


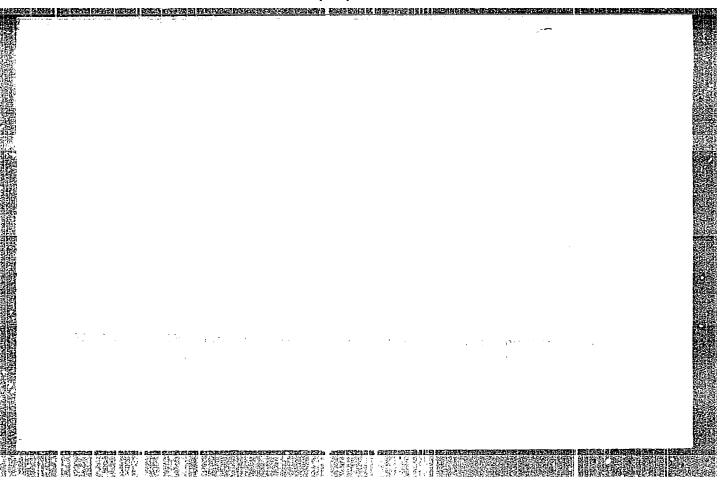


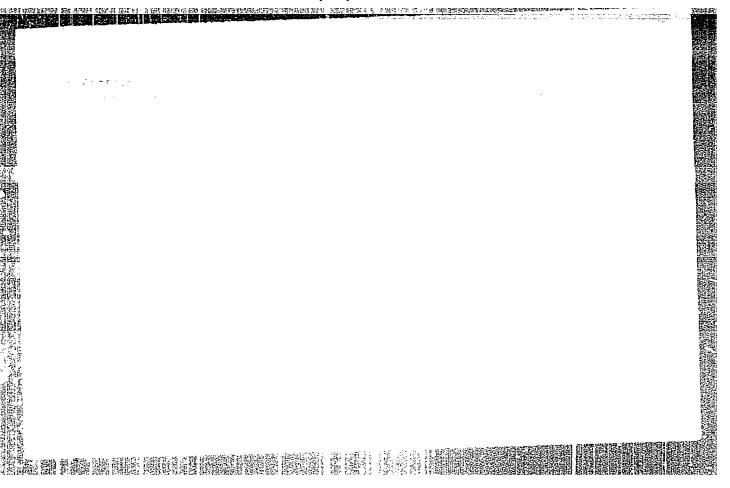


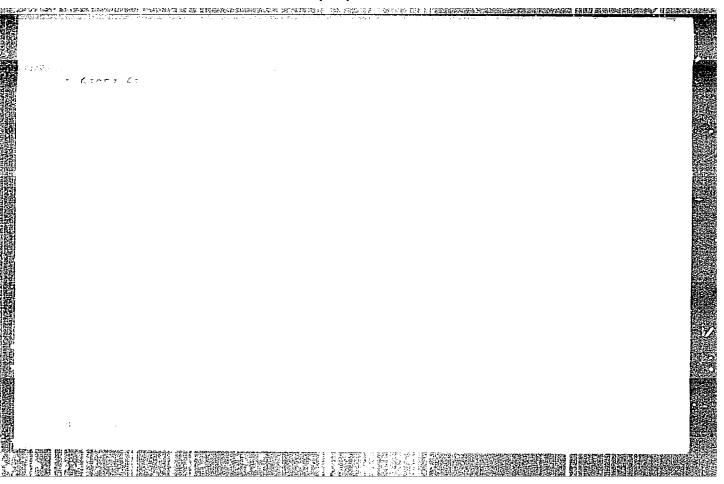
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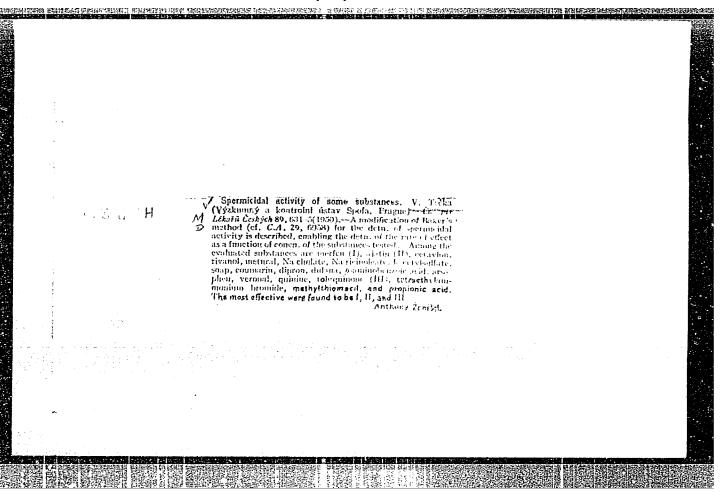
TREIJS, B.

Methodical calculation of production cost price on collective farms. p. 24. PADOMJU LATVIJAS KOMUNISTS, Riga. Vol. 11, no. 3, May 1956.

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no; 8, August 1956.

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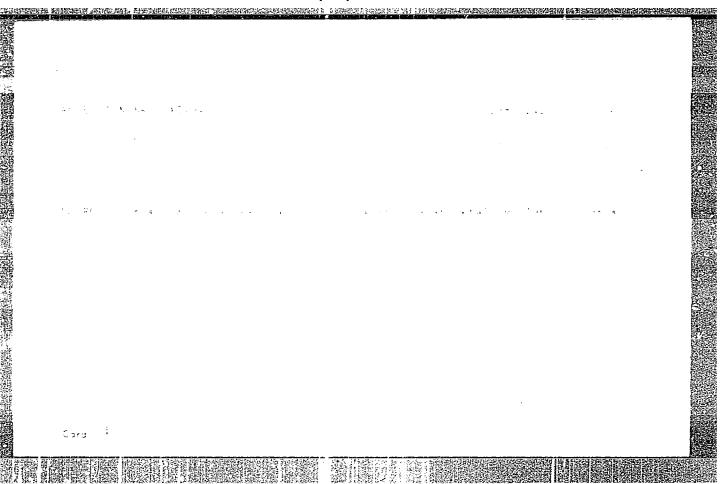
TREKA, V.; VANECEK, M.; DLABAC, A.

Bishomoreserpine, a reserpine analogue with pronounced inhibiting effect. Activ. nerv. sup. 4 no.2:221-222 62.

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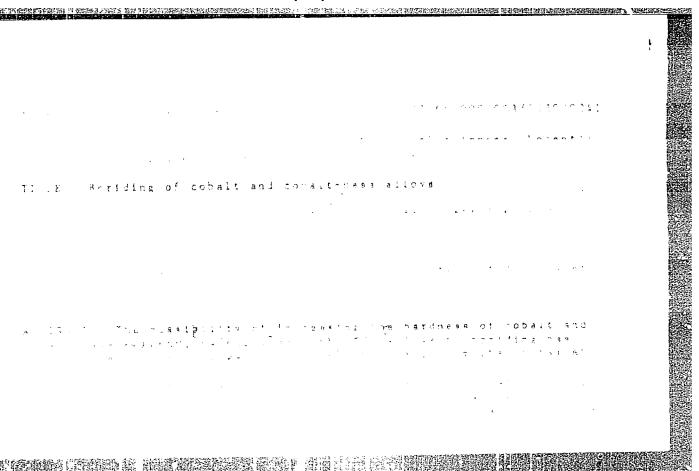
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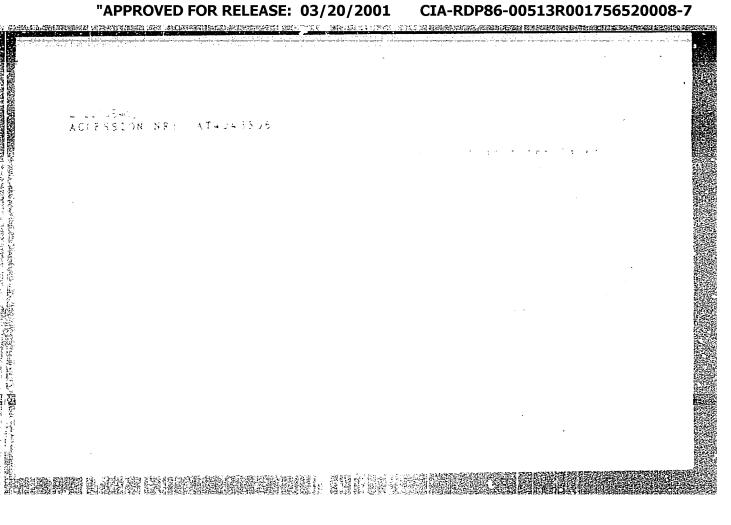
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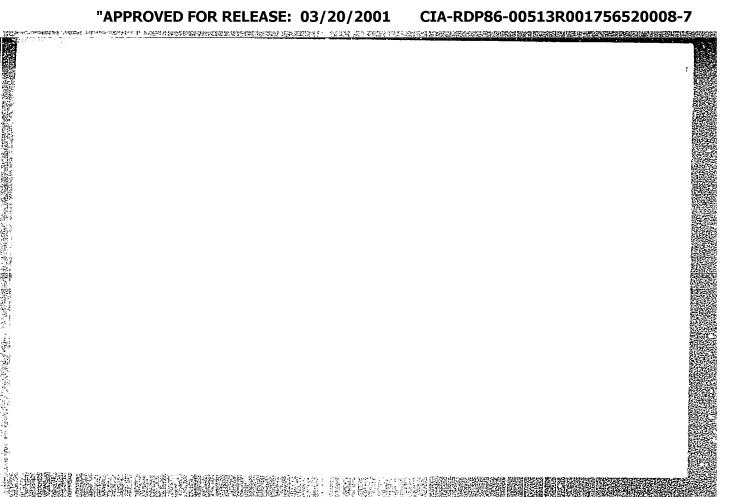


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KRESHCHANOVSKIY, N.S., kand. tekhn. nauk; SIDORENKO, M.F., kand. tekhn. nauk; TREKAIO, A.S., inzh.

Role of nonmetallic inclusions in the failure of cast steel.

Lit. proizv. no.11:29-31 N '65. (MIRA 18:12)

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CIA-RDP86-00513R001756520008-7

200 16-66 ENTINEZ ENTINE ACC NR. AP6008865 (N) SOURCE CODE: UR/0128/65/000/011/0029/0031 AUTHOR: Kreshchanovskiy, N. S. (Candidate of technical sciences); Sidorenko, M. F. (Candidate of technical sciences); Trekalo, A. S. (Engineer) ORG: none TITLE: Role of nonmetallic inclusions in the fracture of cast stee SOURCE: Liteynoye proizvodstvo, no. 11, 1965, 29-31 -crystal dislocation, surface active agent, austenitic steel, plasticity, nonmetalic inclusion, cast steel, material fracture, tensile strength, recrystallization temperature, induction furnace, metal molting, metallographic examination, plastic deformation/ 10Kh15N25 austenitic steel ABSTRACT: 10Kh15N25 austenitic Cr-Ni steel was melted in a 50-kg basic induction furnace, with addition of Al, Si, Ca and Ce for the purpose of final deoxidation. Specimens of this steel (5 mm in diameter, 50 mm in length) were subjected to short-term static tensile tests at 20 and 650°C. Subsequent metallographic examination of the surfaces of fracture revealed the presence of closed cavities, conditionally termed caverns, which develop around nonmetallic inclusions in the part of the specimen that underwent plastic deformation and for the metal tensile-tested at 650°C resemble microcracks. The nonmetallic inclusions are represented by spinel, corundum, silicates, Ce oxides, and Ce sulfides and oxysulfides. The caverns and cracks run in the direction in which the load is applied and their shape and size depend on the shape, size and Card 1/3 UDC: 6211746.79:669.141.25

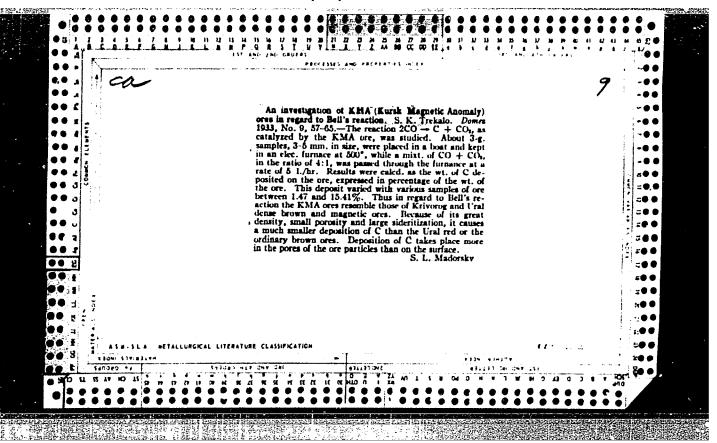
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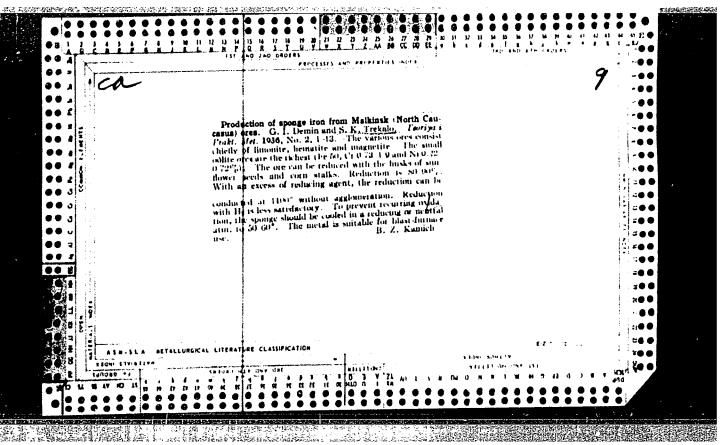
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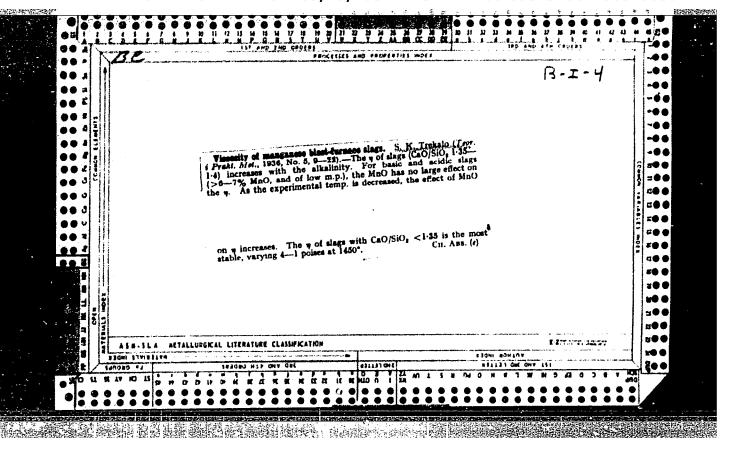
properties of nonmetallic inclusions and the degree of plastic deformation of the metal during testing. The distribution of dislocations investigated as a function of the plastic deformation of specimens warrants the assumption that the caverns form as a result of the plastic deformation of the regions of metal adjoining the nonmetallic inclusion, owing to the migration of the most mobile dislocations and their settlement at the metal-inclusion interface. As the degree of plastic deformation increases, the dislocations become arrayed along slip lines, bypassing the nonmetallic inclusions The reason for fracture is the formation of dislocation pile-ups of a critical density at the moment when the metal's plasticity is exhausted; as the metal gets stretched at temperatures somewhat above recrystallization temperature (500-600°C), the caverns forming around the nonmetallic inclusions develop into cracks along which the metal ultimately fractures. Thus, nonmetallic inclusions are detrimental to the tensile strength of the investigated austenitic steel, at test temperatures somewhat above the recrystallization temperature, while at the same time enhancing the metal's plasticity. The deoxidizing agent, unless it is a surface-active element, enhances the softening temperature of the metal of the stressed zones and thus prevents the development of caverns into cracks. Thus, the role of nonmetallic inclusions in the processes of the plastic fracture of cast metal must be primarily related to the test temperature as well as to the character of fracture (ductile or brittle) and apparently also to the method of loading. For steels with more than one phase and with a large number of alloy elements the determination of the role

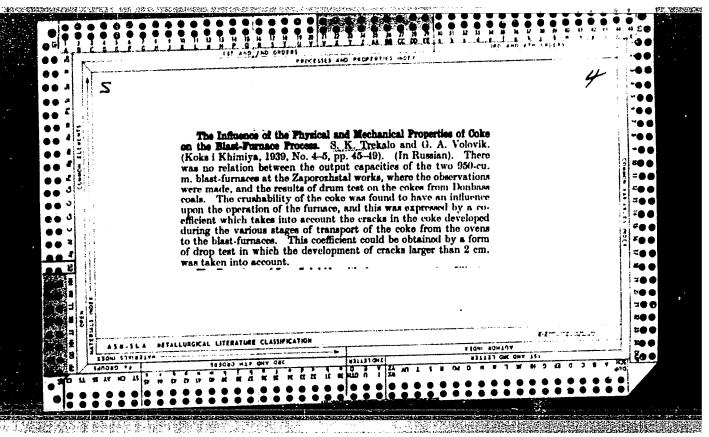
Card 2/3

of nonmetallic inclusions is much more complicated, since then the movement of dislocations in the process of plastic deformation is chiefly determined by the amount and dispersity of the hardening phases. Orig. art. has: 6 figures, 3 tables.							E dislo-			
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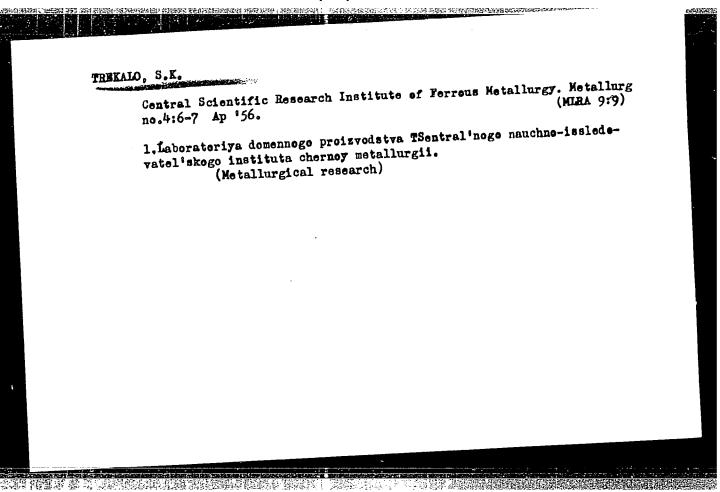




KOLESANOV, Fedor Fedorovich; TREKALO, S.K., redaktor; YABLONSKAYA, L.V., redaktor; EVENSON, I.M., tekhnicheskiy redaktor

[Movement of gases through rubble] Dvizhenie gasov cheres sloi kuskovykh materialov. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 87 p. (MIRA 9:3) (Gas flow) (Blast furnaces)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"



TREKALO, S.K.

137-1958-1-280

Translation from Referativnyy zhurnal Metallurgiya, 1958, Nr 1, p 43 (USSR)

AUTHORS: Gruzin, P.L., Zemskiy, S.V., Trekalo, S.K., Afanas 'yev, V.N.

TITLE: A Study of the Motion of Charge Components in Blast Furnaces

(Izucheniye dvizheniya shikhtovykh materialov v domennykh pechakh)

PERIODICAL: V sb.: Primeneniye radioaktivn. izotopov v chernoy metallurgii.

Chelyabinsk. Knigoizdat. 1957, pp 59-66

ABSTRACT: Radioactive isotopes Fe⁵⁹ and Co⁶⁰ were used to determine the rate of motion of the charge at various distances from the wall of a blast furnace. Photon counters mounted either outside the furnace or in its lining (fixed counters) or introduced within it by A.A. Melikyan's method (mobile counters) were used to trace the progress of the radioactive isotopes through the various levels of the furnace. Data obtained by the investigation show that the time during which the materials remain within a 330 m³ furnace from the stock line to the tuyere belt is 3 hrs. 40 min. for the clinker in the middle of the furnace and 4 hrs. 45 min. at the periphery, while for coke it is 4 hrs. 50 min. both at the center and at the periphery.

Card 1/1

M.O.

1. Blast furnaces--Performance 2. Iron isetepes (Radicactive)
--Applications 3. Cobalt isotopes (Radicactive)---Applications

133-8-1/28

AUTHORS: Bardin, I.P. (Academician), Trekalo, S.K. (Cand. Tech. Sci.),

Zakharov, A.F. (Eng.), Khil'kevich, F.A. (Eng.), and

Lazarev, B.L. (Eng.)

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Smelting of basic pig iron with oxygen enriched blast. TITLE:

(Vyplavka peredel'nogo chuguna na dut'ye, obogashchennom

kislorodom).

PERIODICAL: "Stal'" (Steel), No.8, 1957, pp.673-684 (USSR).

The influence of oxygen enriched blast on the operation ABSTRACT: of a large blast furnace with a normal profile operating

on a prepared burden was investigated. The profile of the furnace is given in Fig.1. The preparation of burden materials is described, their chemical composition during the individual operating periods and physical properties of coke used are given in Tables 1 and 2 respectively. The

mean composition of the burden, furnace lining (Fig. 2), the composition of pig and top pressure during the individ-

ual operating periods was practically the same.

The following operating periods are considered: Card 1/5

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133-8-1/28

Smelting of basic pig iron with oxygen enriched blast. (Cont)

		Oxygen content in blast, %
Period	Date	21.0
I	1.4-30.6	2 2. 19
II	25.7-30.7	23.30
III	31.7-10.8 202 2. 8	• •
	11.8-19.8	24. 0
IV V	1.9-28.9	21.0
V	T 5 7 LO 6 7	

The operating results obtained during the individual periods are given in Table 3. Operating conditions during the last period V deteriorated due to the formation of a scaffold and deterioration in the state of charging equipment, therefore this period was excluded from further comparison. Daily variations of basic operating factors during the smelting of iron with normal and oxygen enriched blast are shown in Figs.3 and 4 respectively. The influence of oxygen enrichment on the amounts of blast and gas made, CO content in gas and gas made to blast ratio is shown in Fig.5. The comparison of the intensification of the smelting process when using oxygen enrichment under conditions of (a) constant amount of blast and (b) constant amount of gas made per unit time is shown in Fig.6. Material balances

Card 2/5

133-8-1/28

Smelting of basic pig iron with oxygen enriched blast. (Cont.)

of the smelting process during the individual periods operating factors and heat balances for the same periods are given in Tables 4, 5 and 6 respectively. The distribution of CO, content in the top gas along the throat diameter during the individual operating periods is shown in Fig.7. Variations in the composition and temperature of gas at various furnace levels during the individual operating periods are shown in Figs. 8 and 9. Methods used for the determination of the above data are not given. The comparison of cost of production per ton of pig with normal (A) and oxygen enriched (B) blast is given in Table 7. It is concluded that: 1) operation of the furnace with oxygen enriched blast was stable without increasing moisture content of blast. The temperature of the blast was increased by 35-45 C in comparison with the operation on normal blast; 2) oxygen enrichment permitted intensifying furnace driving within the limits of retaining the amount of gas produced per unit of time on the same level as in normal operation; 3) the distribution of the gas stream across the furnace during operation with enriched blast remained normal which was the main factor contributing to

Card 3/5

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133-8-1/28

Smelting of basic pig iron with oxygen enriched blast. (Cont.)

the retention of a comparatively low coke rate achieved on normal blast; 4) blast enrichment causes a decrease in the size of zone of moderate temperatures (800-1100 C) in the furnace stack and the corresponding increase in zones of low and high temperatures (above 1100 C). Despite this, the concentration of CO₂ in gas increases along the furnace height at a higher rate than with ordinary blast, due to an increase in the reducing ability of the gas; 5) with a 23.3% oxygen enrichment the output of the furnace increased by 6.7% with unchanged coke rate (14 days operating period); 6) the cost of production of pig with oxygen enriched blast was 2 roubles 40 kop.per ton higher than with ordinary blast. This increase was caused by the high cost of technical oxygen on the HTMK (15 kop/m³); 7) the results obtained fully justify an enlargement of the tonnage oxygen plant on the HTMK in order to supply blast furnaces with oxygen for blast enrichment. Oxygen plants should be built on works operating with a prepared burden. The construction of oxygen plants of 10 000 m³ capacity is recommended.

Card 4/5

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133-8-1/28

Smelting of basic pig iron with oxygen enriched blast. (Cont.)

There are 7 tables, 9 figures and 1 American reference.

ASSOCIATION: TeNIIChM and Nizhniy Tagil Metallurgical Combine.

(TeNIIChM i Nizhne-Tagil skiy Metallurgicheskiy Kombinat).

AVAILABLE: Library of Congress

Card 5/5

SOV/133-58-6-3/33

Trekalo, S.K., Candidate of Technical Sciences AUTHOR:

Smelting/Iron with an Enriched On Charge Hanging During TITLE:

Blast (O zavisaniyakh shikhty pri vyplavke chuguna na

obogashchennom dut'ye)

Stal', 1958, Nr 6, pp 489 - 495 (USSR). PERIODICAL:

On the basis of the analysis of the operation of two furnaces, A (Novo-Mulskiy metallurgicheskiy zavod, Novo-Mulsky Plant) ABSTRACT: and B (Novo-Tagil'skiy zavod - Novo-Tagil'sky Plant) on an

oxygen-enriched blast during which furnace A was often hanging while furnace B had a normal burden descent, the author while the explain the causes of hanging. The profile of furnace A before and after re-lining - Figure 1; a comparison of operating indices of furnaces A and B - Table 1; size distribution of the iron bearing part of the burden of

furnaces A and B - Table 2. The distribution of CO2 in the top gas across the throat diameter in furnace A with old and new profiles - Figures 2 and 3, respectively; changes in the

conditions of the passage of gases through the column of burden materials in furnaces A and B at various degrees of oxygen enrichment of the blast - Table 3; pressure drop along

the height of furnace A - Figure 4; the length of the

Cardl/4

combustion zone at various contents of oxygen in the blast -

SOV/133-58-6-3/33 On Charge Hanging During Smelting/Iron with an Enriched Blast

Figure 5; changes in the gas composition along the hearth diameter in front of tuyeres in furnace A - Figure 6; changes in the distribution of CO2 across the throat in furnace B -Figure 7; reducibilities of burden materials used in A and B furnaces. It is pointed out that the main cause of the burden hanging in furnace A is the support of the gas stream and not the formation of the viscous slag. The furnace was operated at a driving rate inconsistent with its burden permeability. It was peripherally working on both normal and oxygen-enriched blast. On the other hand, the burden permeability of furnace B was better and the furnace was operated at a lower driving rate. The centre of the burden column was always open. Although the reducibility of the burden materials used in furnace B was lower than in furnace A due to a better distribution of gases through the burden column, the amount of coke burned at tuyeres of furnace B was smaller than in furnace A, i.e. the proportion of indirect reduction in the furnace B was higher than in A. On transfer of furnace B to oxygen-enriched blast, the amount of gas formed Card 2/4

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Cast SOV/133-58-6-3/33
On Hanging of Burden on Smelting/Iron with an Enriched Blast

at tuyeres increased only by 0.5 - 1.8% as against 8 - 14.5% for furnace A. For these reasons furnace B could operate with oxygen-enriched blast without additional moisture. To whieve smooth burden descent on furnace A, an addition of

 $40-50~{\rm g/m}^3$ of moisture without an appropriate compensation in blast temperature was necessary. The action of moisture is explained as being due to elongation of the combustion zone towards the centre, namely, that part of the zone where the reactions of decomposition of $\rm CO_2$ and $\rm H_2O$ by carbon takes place.

Views (Ref 2) that burden hanging is due to an increase in the temperature of combustion zone due to which the evaporation of silicon monoxide takes place which condenses higher in the furnace decreasing burden permeability are criticised. It is pointed out that temperatures in the combustion zone of furnace measured by V.A. Khromov (TSNIICHM) at distances 200, 400 and 700 mm from the tuyere level were at normal blast (blast temperature 840 - 880 C) 2 030, 2 079 and 2 030 C, respectively, and with a 24% oxygen-enriched blast 2 050, respectively, and with a 24% oxygen-enriched blast 2 050, respectively and with a 24% oxygen-enriched blast 2 050, respectively of silicon monoxide was possible. In the author's evaporation of silicon monoxide was possible. In the

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Cast SOV/133-58-6-3/33 On Hanging of Burden on Smelting /Iron with an Enriched Blast

view, gaseous oxides of silicon under blast furnace conditions react with liquid slag in a wide region where the temperature for maintaining liquid slag is sufficient, but too low for the evaporation of silicon monoxide.

There are 7 figures, 3 tables and 2 Soviet references.

ASSOCIATION: TENIICHM

1. Blast furnaces--Performance 2. Blast furnaces--Analysis

Card 4/4

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CIA-RDP86-00513R001756520008-7 "APPROVED FOR RELEASE: 03/20/2001

18.2000

77443 SOV/133-60-1-4/30

AUTHORS:

Yakubtsiner, N. M., Trekalo, S. K. (Candidates of Technical Sciences), and Shur, A. B. (Engineer)

TITLE:

Physical Properties of Fluxed Sinter of the Cherepovets

Plant

PERIODICAL:

Stal', 1960, Nr 1, pp 14-18 (USSR)

ABSTRACT:

This is a study of sintering problems at the Cherepovets Metallurgical Plant (Cherepovetskiy metallurgicheskiy zavod). G F. Grigor'yevykh, Ye. V. Nevmerzhitskiy, V. M. Sholeninov, D. L. Grinberg, and E. Ye. Gutman participated in the work. The plant is producing fluxed sinter from beneficiated Olenegorskiy (not identified) iron deposits and from Pikalevo deposit (Pikalevskoye mestorozhdeniye) of limestone. At some periods the pyrite cinders of plants near Moscow were added to the charge of sintering plant. The Olenegorskiy beneficiated ore (by 1958 data) contains 60.1 to 60.7% Fe; 13.2 to 14.1% SiO; and 1.1 to 1.3% CaO. The limestone (amounting to 300 kg/ton of sinter) contains

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Physical Properties of Fluxed Sinter of the Cherepovets Plant

77443 SOV/133-60-1-4/30

51.5 to 53% CaO; 1.5 to 4% of insoluble residue (1 to 2% SiO_2); and about 0.3% MgO. The determination of

bulk weight of fluxed sinter and the determination of screen composition and the degree of crushing of sinter during transportation are described. The Cherepovets Plant, for the first time in the USSR, used a two-stage screening of sinter returns. In addition to the regular screening machines (in the unloading section of sintering machine), which screen the returns before loading of sinter into cooler, the additional vibrating screening machines for secondary screening of fines (after the cooler) are installed. The bulk weight of sinter varies. It is due to the increase of the apparent specific weight of sinter pellets with the decrease of their size, as shown by the experimental data previously obtained by N. M. Yakubtsiner and Yu. P. Smirnov (see Fig. 2). For the study of screened fluxed sinter, samples were taken from the conveyors. The results are given in Fig. 4. The tests show that the secondary screening of returns is expedient. However, the consecutive transportation and reloading of sinter results

Card 2/6

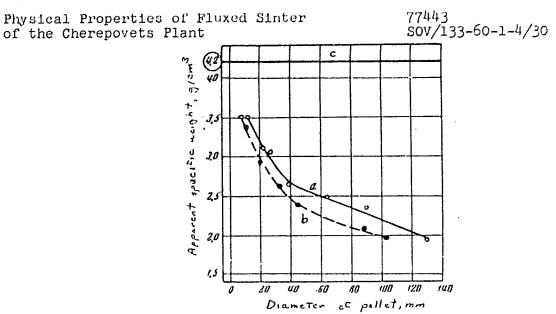


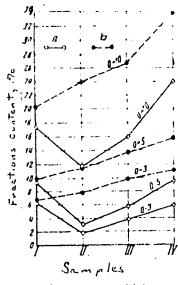
Fig. 2. The relationship between the apparent specific weight of sinter and the size of pellets: (a) sample Nr 1; (b) sample Nr 2; (c) true specific weight.

Card 3/6

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Physical Properties of Fluxed Sinter of the Cherepovets Plant

77443 SOV/133-60-1-4/30



Card 4/6

Fig. 4. Change in composition of various fractions (from 0-3 to 0-10 mm) in the sinter, when screening with 2 open sections (a) and totally closed (b) screening machines (samples I to IV).

Physical Properties of Fluxed Sinter of the Cherepovets Plant

77443 sov/133-60-1-4/30

in the new formation of fines. The effect of prolonged storage in silos on the screen composition of sinter, the crushing of sinter fractions (from 3 to 5 and 100 to 150 mm) during the storage in piles under the silos for 5 to 24 hr; and the change of screen composition of fresh sinter and sinter stored at the ore yard were studied. The deterioration of screen composition of sinter during its storage at ore yards (with accompanying increase of bulk weight), as compared with sinter of current production, supplies a good argument in favor of building the sintering plants at the metallurgical plants and not at the ore mines. The authors state that in order to bring to a minimum the amount of fines in the sinter, which is charged to the furnace, the screening of fines before loading of sinter into skip is imperative. At present the amount of fines (of 0-5 mm fraction) at the Yenakiyevo Plant (Yenakiyevskiy zavod) reaches 21%, and at the Krivoy Rog Plant (Krivorozhskiy zavod), 20.8%.

Card 5/6

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

特性實際的物質的過程。1925年,這是自由語語問題的意思的意思的意思的。1925年,可是共享的100万年的可能的數學的意思的問題的

Physical Properties of Fluxed Sinter

77443 sov/133-60-1-4/30

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of the Cherepovets Plant

There are 9 figures; 2 tables, and 3 Soviet references.

ASSOCIATION:

Leningrad Polytechnic Institute (LPI), Central Scientific Research Institute of Ferrous Metallurgy (TsNIIChM), and Cherepovets Metallurgical Plant (Cherepovetskiy metal-

lurgicheskiy zavod)

Card 6/6

TREKALO, S.K.; YAKURTSINER, N.M.; ANDRONOV, V.N.; GRIGOR'YEVYKH, G.F.;

KAYLOV, V.D.; SHUR, A.B.; v rabote prinimali uchastiye:

NEVMERZHITSKIY, Ye.V.; SHOLENINOV, V.M.; VITOVSKIY, V.M.;

GRINBERG, D.L.; GUTMAN, E.Ye.; YEGOROV, N.D.

Open-hearth furnace operations with classified sinter. Stal¹ 20 no. 12:1063-1070 D '60. (MIRA 13:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Cherepovetskiy metallyrgicheskiy zavod.

(Blast furnaces) (Sintering)

STEFANOVICH, Mikhail Aleksandrovich; MANCHINSKIY, V.G., dotsent, retsenzent; THEKALO, S.K., red.; KRYZHOVA, M.L., red.izd-ve; MATLIUK, R.M., tekhn.red.

[Analysis of the blast furnace process] Analiz khoda domennogo proteessa. Sverdlovsk, Gos.nauchno-tekhn.isd-vo lit-ry po chernoi i tavetnoi metallurgii, Sverdlovskoe otd-nie, 1960. 286 p.

(MIRA 13:10)

(Blast furnaces)

TREKHDENOV, V.I.

Soviet exhibition in New York. Avtom. telem. i sviaz' 3 no.11:20 5 '59

(MIRA 13:3)

1. Glavnyy inzhener Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.

(New York--Exhibitions)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

		12(1)) 28(1) HASE I BOX EXPLORATION SOV/2776	Boroys v shelemodorothopy artomatike, telementhealte i svyazi; sbornik statey ("sv Devalopente in Railroad Artomation, Resort Control, and Communications; Collection of Articles) Boscow, franscheldoritdat, 1959. 196 p. 3,000 copies printed.	' Mas. (fittle page): B.S. Aprianteev, Candidate of Permited Sciences, and A.N. Papila, Engineer; M. (Inside book): G.I. Marenfore, Engineer; Pech. Ed.; C. G.P. Verina.	FUNCOME: This collection of articles is intended for engineers and technicisms (*) specializing in relired mitometic and remote control and communications.	COTRIGE: The articles in this book concern the following problems: the application of antonatic control in the electric power supply of automatic blocksignaling systems; the construction of alectric translocking systems in establing parts of realized stations; andernization of route control systems; equipping of rous vith a relay-electroschanical system of semimicantic	signaling spream and the properties of control of communication lines spaining spream and the properties of the properties of control of contro	radionals in the United States. Thore are no references. Burgard, H.M., Radioser, Ralay-Electroschanical System of Seminicantic Mock and Manufacture of Seminicantic Mock and Michael Manufacture of Seminicantic Mock of	tromechanical which was developed in 1995-1997 at the diprotrames chaler- and which was found to work satisfactorily on a few runs.	Forbassing, I.B., Dactoser, Route Lavar System in Route Control Systems 75 methor is of the opision that the route-control system of Engineers Satularich For Large realized and in the ENSE, spiles only to email realized. For Lincol stations and sidings a route lawar system via developed which can handle both incoming and original station from all routes and in all results. Operation of this system for one five years gave settlemating monthly. A description of this system is given.	furthermory V.L., and [9.M. Kisaler, Engineers. Barta Control Systems of the Bookers of the Mainten of the Mainten and the Mainten of the Mai	Solgistry A.M., Enginer. Signaling System on Subray Lines for March describes the two-aspect signaling system used in the Moscow and Jonathand subrays.	Damin, A.I. Engineer. Ender Derice for Measuring Speed IN 1955 the directransagealayer's started the development of a system of perfective speed regulation of relicent and cars in hery years. In 1957 as perfected models of an electronic speedcaster of the Trials for an electronic speedcaster of the Trials for an electronic speedcaster of the Trials for and of conditions. The metal trials describe these developed and tested taker operating Poppler-effect principle.	Pol'Chang Alla, Engineer, New Data on the Effect of the Contact Virus Schools of Tallineds on Talephone Circuits of Oresteed Communication	AN the PARIN NOT studies of the cemses of the disturbing effects of d-o lyo central virus networks on long-distunce service channels are being conducted and method for the suppression of these disturbances are planned. The supplies channels the intitul smalls of the interest of the int	This is a descriptive article of wehateal Sciences. Development of Articularia and This is a descriptive article of achievments in the US in the Oblin the Last 5 to 5 parts.	Popula A.M. Incines: Commissions on Mairoads in the CEA state on railroads in the CEA state on railroads in the CEA.	b and the same of	
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TREKHDENOV, V.I.; SHIMKO, Yu.K.; TSUKKERMAN, L.P., retsenzent; HOVIKAS, M.H., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Platform passenger train indicator] Ukazatel' otpravlenia passazhirskikh poezdov. Moskva, Transzheldorizdat, 1963. 66 p. (MIRA 17:2)

TREKHDENOV, V.I.

An automatic storage locker. Avtom., telem. i sviaz' 8 no.12:30-31
(MIRA 18:1)

1. Glavnyy inzh. Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

Block-type semiautomatic relay block system. Avtom., telam.i sviaz' 6 no.8:7-13 Ag '62. (MRA 15:8)

1. Glavnyy inzh. konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshchenlya. (Railroads—Signaling—Block system)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

TREKHDENOV, V.I.

Block-type semiautomatic relay block systems. Avtom., telem. i sviaz' 6 no.10:7-11 0 '62. (MIRA 16:5)

1. Glavnyy inzh. konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.

(Railroads—Signaling—Block system)

CONTRACTOR CONTROL MATERIAL PROPERTY OF THE PR

TREKHDENOV, V.I.; KISELEV, Ye.N., konstruktor Relay-type railroad block system. Avtom., telem. i sviaz' 5 no.12: (MIRA 14:12)

3-8 D *61.

1. Glavnyy inzh. Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya (for Trekhdenov).

(Railroads--Signaling--Block system)

CIA-RDP86-00513R001756520008-7" APPROVED FOR RELEASE: 03/20/2001

TREKHDENOV, V.I.

New developments in automatic control, remote control, and communications. Avtom., telem. i sviaz' 5 no.10:6-7 0 '61.

(MIRA 14:9)

1. Glavnyy inzh. Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Railroads—Electronic equipment)
(Railroads—Signaling)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

TREKHDENOV, V.I.

HADDERS STEERING OF THE PROPERTY OF THE PROPER

Design bureau of the main office of the Signaling and Communication Department. Avtom., telem. i sviaz' 4 no. 12:15-16 D'60.

(MIRA 14:1)

1. Glavnyy inzhener Konstruktorskogo hyuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobahcheniya.

(Railroads--Communication systems)

(Railroads--Signaling)

SEMENYUK, N.M.; RYAZAMTSEV, B.S.; TREKHDEROV, V.I.; SHARIKOV, V.A.

Leader of an inventive team. Avtom. telem. i sviaz' 2 no.12:41
D '58.

(MIRA 11:12)

(Mashkov, Konstantin Dmitrievich, 1898-)

Joint work assures success. Avion., telem. i svinz: 8 no.11:
19-20 N '64. (MisA 17:12)

1. Clavnyy inzh. Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva patey socbshcheniya.

In the designer's bureau of the Main Administration of Signaling and Communications. Avtom., telem. i sviaz' 7 no.5:40 My '63.

(MIRA 16:7)

1. Glavnyy inzh. Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.

(Railroads—Signaling—Centralized traffic control)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

TREKHIN, V.; SHEYNIN, M., inzh.

From simple to difficult. Gradzh.av. 17 no.2:17-18 F '60. (MIRA 13:6)

1. Pilot-instruktor po trenasheram Vysshego aviatsionnogo uchilishcha Grazhdanskogo vozdushnogo flota, Leningrad. (Leningrad-Flight training)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

SOV/84-60-2-33/59

1(

Trekhin, V., Pilot-Instructor for Ground Trainers,

Sheynin, M., Engineer, (Leningrad)

TITLE:

AUTHOR:

From Easy Stages to More Difficult Ones

PERIODICAL: Grazhdanskaya aviatsiya, 1960, Nr 2, pp 17-18 (USSR)

ABSTRACT:

This article is a set of instructions on how to use ground trainers and mock-ups, beginning with TL-5,28 ERK-DGMK and PSP-48 trainers, and more advanced, unspecified ones. The authors call upon all con-

unspecified ones. The authors call upon all concerned to cease the manufacture of inferior makeshift trainers, and do away with the unfounded distrust toward good, standard trainers. They want the industry to produce special trainers for the Tu-104, Il-18 and An-10, for training in OSP (Instrument Landing Equipment) landing. Technical data contained in this article is as follows: The Higher Aviation School of GVF, using the standard PTU-0 television School of GVF, using the standard PTU-O television

Card 1/2

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SOV/84-60-2-33/59

From Easy Stages to More Difficult Ones

sets, has worked out two television arrangements for trainers. One such arrangement provides an imitation of visual flights, enables the trainee to watch the runway when coming out of clouds, after having flown over the short-range precision approach radar. The other arrangement enables the pilot in the trainer to perform a landing approach using the radar navigator. It is also intended for training the dispatchers, so as to give them an idea of a landing approach from the pilot's position. A cartoon on page 17 scoffs at the training subunit commanded by L.Nozadze, Gruzinskoye territorial'noye upravleniye (Georgian Territorial Administration), where an available trainer for An-2 aircraft stands unused. There is 1 drawing.

ASSOCIATION: Vyssheye aviatsionnoye uchilishche GVF (Higher Aviation School of the GVF), Leningrad.

Card 2/2

TREKHLEBOV, I.

On the way to development. Voen. znan. 30 no.12:8 D '54. (MIRA 8:7)

1. Predsedatel' komiteta pervichnoy organizatsii Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.
(Zaporosh'ye--Military Education)

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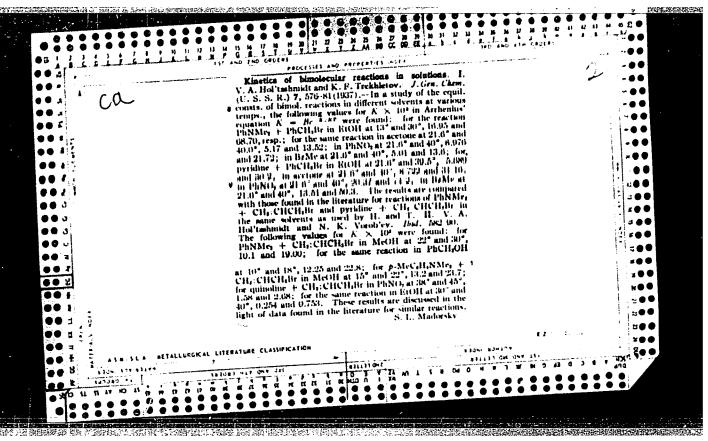
TARGET SELECT CONTENTS BUILDING BUILDIN

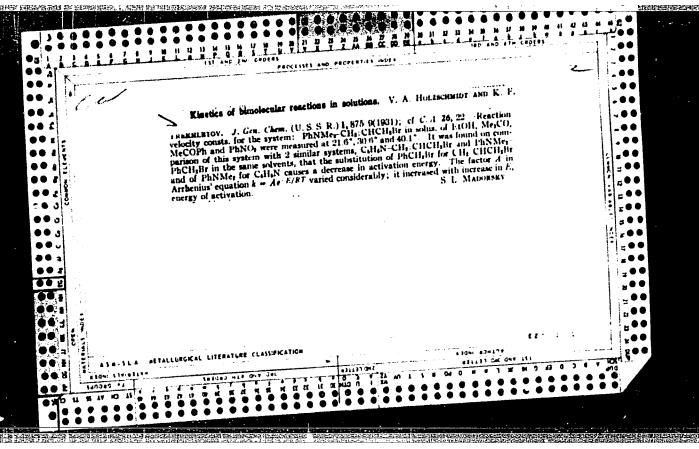
TREKHLETOV, K.F.

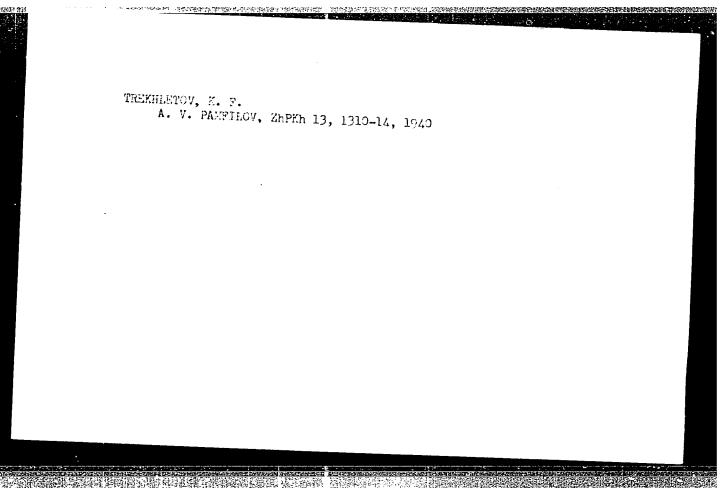
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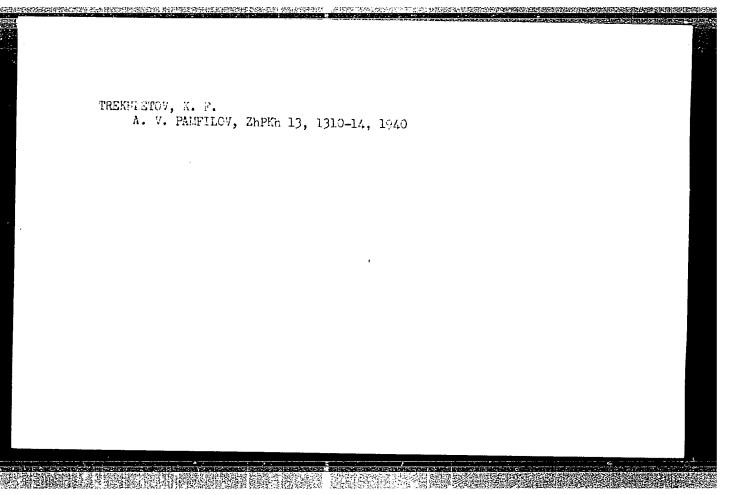
ZHURMAL PRIKLADNOI KHIMII, 13(9): 1310-1314, 1940.

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"Sur la cinetique des reactions bimoleculaires dans les solutions. Communication I."

Holzschmidt, W. A. et Trekhletow, K. F. (p. 576)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 3-4.

TREKHOV, M.

Response of automobile-industry workers. NTO 2 no.1:27 Ja '60. (MIRA 13:5)

1. Uchenyy sekretar' soveta pervichnoy organizatsii Nauchnotekhnicheskogo obshchestva energetikov na avtozavode imeni Likhacheva, Moskva.

(Moscow-Automobile industry-Technological innovations)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

Dugovye i termicheskie elektromechi. Arc and induction electric furnaces. Noskva, mykh zavodakh, vyp. 1) (S1-26289)

TK466:.T7

1. Electric furnaces. 2. Avtomobil'nyi zavod imeni Stalina, Noscow.

70863

TREKHOV, M. I.

Decreasing power consumption by means of electromotors Moskva, Mashgiz, 1945. 46 p. (S1-26271)

TK2785.T7

1. Electric motors, Induction.

TREKHOV, M. I.

PA 23T66

USSR/Engineering
Wire - Drawing
Electrical Equipment

Nov/Dec 1947

"Economy of Electrical Energy During Wire Drawing," M. I. Trekhov, Automobile Factory imeni Stalin, 1 p

"Promyshlennaya Energetika" No 11/12

Experiments were conducted to determine the relationship between the expenditure of electric power during drawing and the angle of emission of the metal in the drawplates. It was discovered that during the drawing of rods, electric power expenditure fell 11.3 percent when the angle in the drawplate was 15 degrees.

23T66

TREKHOV, L. I.

TREKHOV, M. I. Ekonomiya elektroenergii v metalloobrabaty vsyushchikh tsekhakh. Sbornik materialov Nauch.-tekhn. sencii po ekonomii elektroenergii. (Ckt. 1947 g.) vvp. 1. "., 1947, s. 150-66.

S0: Letopis' Zhurnal'nykh Statey, no. 29, moskva, 1949

TIEK:0V, II. (Engl		RESIDENT AND STATE	STEETS AND ST	STARL BELL BELLE	SHARE SHALLDER				
Pneumatic Tools									
Effective use of	oneumatic e	ovipment	in machin	e building	plants.	Prom.	energ.	9. no.8,	1952.
Monthly List of Eq.	ssian Acces	sions, Li	brary of	Confrecs,	November	1052,	UTICLASE	IFIED	

- 1. THEKHOV, M.I.
- 2. USSR (600)
- 4. Electric Power
- 7. Experience with the work on electric power economy, Prom.energ. no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

TREKHOV, M. I. USSR/Miscellaneous Card 1/1 : Pub. 61 - 3/23 Authors : Trekhov, M. I. Title * Ways of economizing on electrical energy in foundry industry Periodical ! Lit. proizv. 4, 7-9, July 1954 Abstract : Several ways of decreasing the consumption of electrical energy in foundry plants by greater utilization of foundry fuel (coke) and by reducing thermal losses and increasing the efficiency of electrically heated furnaces, are presented. Graphs. Institution

Submitted

TREKHOV, M.I.

Subject : USSR/Electricity

AID P - 1916

Card 1/1 Pub. 29 - 21/25

Author : Trekhov, M. I.

: A method for inspection of fuses Title |

Periodical: Energetik, no.2, 36-37, F 1955

Abstract : The author describes a practical method of inspection.

Institution: None

Submitted : No date

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

TREKHOV, M.I., kundidat tekhnicheskikh nauk.

More efficient use of power in electroplating sections.

From.energ.11 no.5:20-22 My '56. (MLRA 9:9)

(Electroplating)

TREMHOV, M. I.

(Candidate of Technicl Sciences)

TO THE THEORY OF STREET STREET STREET, AND A STREET STREET, AND A STREET STREET, AND A STREET STREET, AND A ST

"Rational Use of Thermal and Electric Power in New Engineering Processes in his Engineering Factory"

report presented at the All-Union Sci. Technical Conference on Economy of Fuel and Electric Power in the Engineering Industry. December 1957, Moscow.

Promyshlennaya Energetika, 1950, vol. 13, no. 3, pp. 33-35 (see author card for GCRIM, F. I.)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

8(6);25(5)

PHASE I BOOK EXPLOITATION

SOV/1839

Trekhov, Mikhail Ivanovich

Ratsional'noye ispol'zovaniye elektroenergii na mashinostroitel'nykh zavodakh (Efficient Use of Electric Power in Machinery Manufacturing Plants) Moscow, Gosenergoizdat, 1958. 211 p. 7,000 copies printed.

Ed.: I. B. Glezer; Tech. Ed.: G. Ye. Larionov.

对对对中国企业的企业,并且各种的工作的对象的主义的主义的企业的。

PURPOSE: The book is intended for power engineers, industrial technologists, and students of electrical engineering vuzes.

COVERAGE: The book characterizes electric power consumption in plants manufacturing machinery. It describes methods of electric power economy in machining methods, in grinding operations, in casting plants, in using electric welding apparatus, and in the production and consumption of compressed air. Economizing electric power consumption in metal-coating plants is also discussed. The book is based on materials from factories on

Card 1/5

laboratory tests, conference papers, and other materials. book was written by M.I. Trekhov except for Chapter VI, paragraph 21, and Chapter VII, paragraph 22, which were w by M.N. Osokin. There are 19 references, all Soviet.	
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 in Investigation of Methods for Electric Power Economy in Machining Metals Electric power consumers in metal-machining plants Investigation of electric power economy measures in grinding operations 	13 13 52
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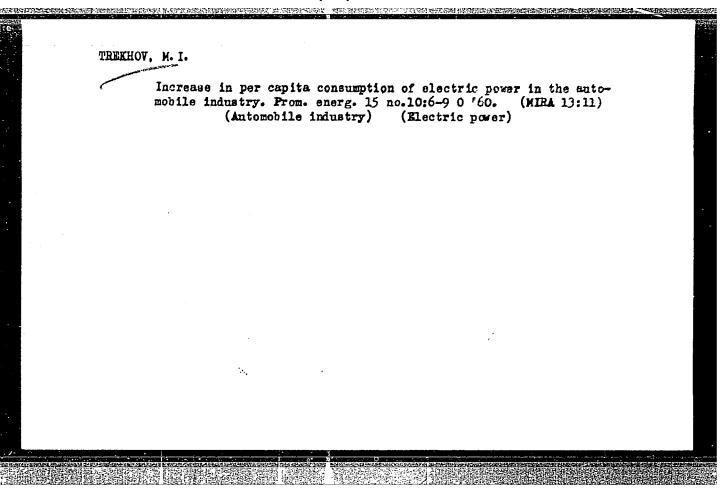
Efficie	ent Use of Electric Power (Cont.) SOV/1839	
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TREKHOV, M.I.; GORIN, F.I., inzh.; AKULOV, Ye.F., red.; KIREYEV, M.I., red.; MOVIKOV, V.K., red.; SAVEL'YEV, V.I., red.; CHUMAKOV, N.M., red.; POPOV, I.V., red.;
BORUNOV, N.I., tekhn. red.

[Efficient use of electric power in metal cutting and press working in machine manufacturing plants] Ratsional'noe ispol'zovanie
elektroenergii pri obrabotke metallov rezaniem i davleniem na
mashinostroitel'nykh zavodakh. Moskva, Gos. energ. izd-vo, 1961.

103 p.

(MIRA 14:10)

(Electric metal cutting) (Power presses—Electric driving)

Circulation type cooling system for welding and high-frequency systems. Prom. energ. 20 no.9:18-20 S 165. (MIRA 18:9)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001756520008-7"

TREKHOV, M.I.

Rational utilization of electric power in the I.A. lokhachev motor vehicle works in Moscow.

Report submitted for the Symposium on Rational Electric Power Consumption Warsaw , Poland 22-25 May 1962

Food boilers operated on liquid fuel. Tyl i snab. Sov. Voor.
Sil 21 no.11:89.90 N '61. MIRA 15:1)

(Oil burners)

(Cookery--Equipment and supplies)

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TREKHOV, Ye.S. Work of splitting micas along the cleavage plane in air. Nek. vop. eksp. fis. no.1:63-66 '59. (MIRA 13:2) (Mica)

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PHASE I BOOK EXPLOITATION

SOV/3247

Moscow. Inzhenerno-fizicheskiy institut

Nekotoryye voprosy eksperimental'noy fiziki, vyp. 1 (Some Problems in Experimental Physics, Nr 1) Moscow, 1959. 85 p. 3,000 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya SSSR.

Ed.: V.F. Semenov, Candidate of Physical and Mathematical Sciences, Docent; Tech. Ed.: R.A. Negrimovskaya.

PURPOSE: This book is intended for physicists, chemists and other persons interested in general problems of nuclear physics and physical and chemical analyses.

COVERAGE: The collection contains 10 articles dealing with problems in elementary particle acceleration, radiography and crystal structure, physical and chemical analysis and instrumentation in these fields. References and mention of personalities accompany each article.

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